

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P392984

Luminaire Tested: **14EN-LD2-18-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-49)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-18-UNV-L92765-W2A-1-U (5700K)
Description: 1X4 ENCOUNTER, 1800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1498.1 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

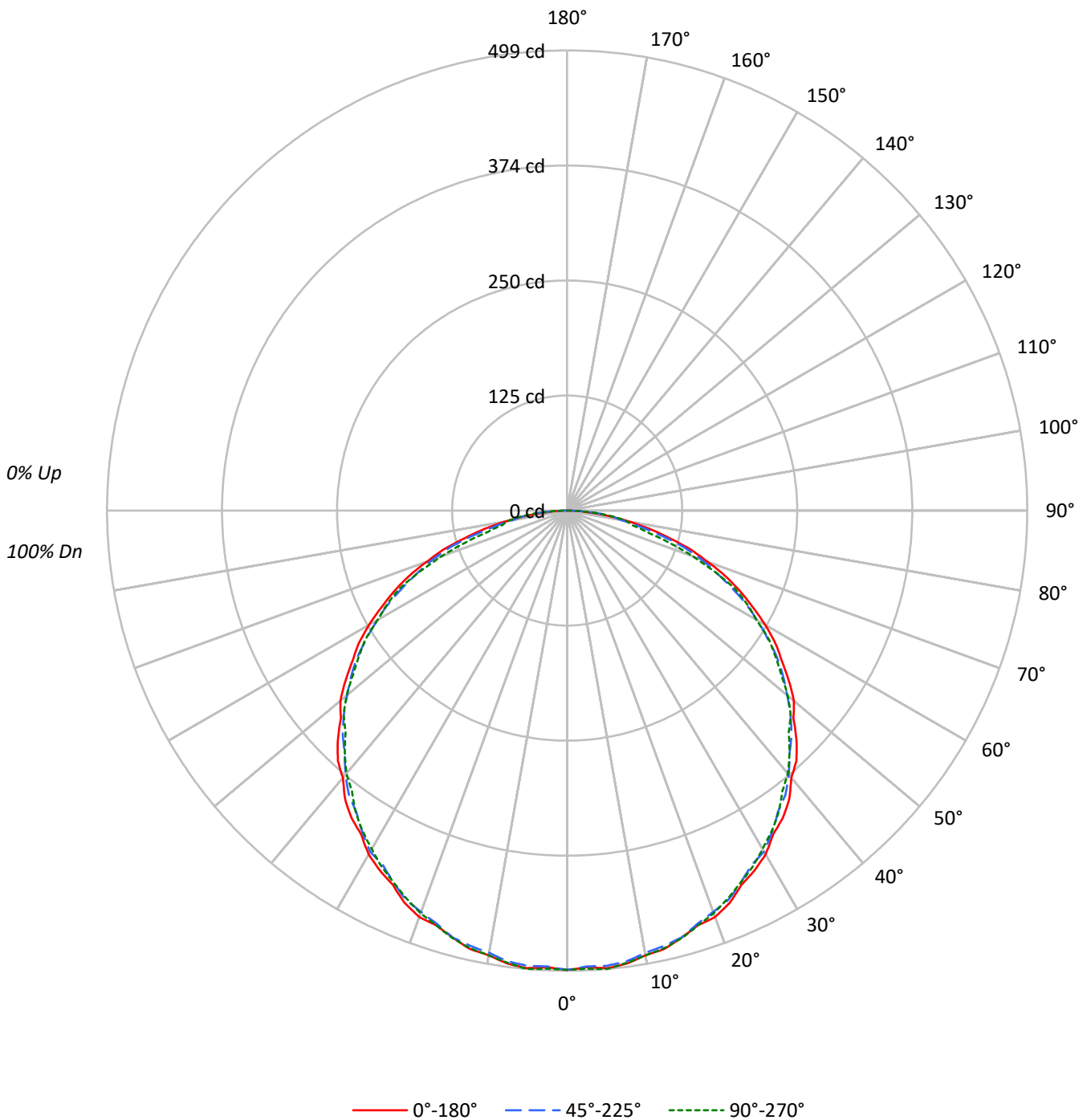
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1340	1340	1340
5°	1345	1338	1348
10°	1338	1331	1338
15°	1335	1335	1338
20°	1343	1326	1331
25°	1329	1322	1322
30°	1338	1327	1317
35°	1338	1310	1313
40°	1329	1314	1308
45°	1339	1310	1293
50°	1344	1304	1308
55°	1333	1305	1293
60°	1336	1280	1276
65°	1319	1248	1280
70°	1273	1219	1138
75°	1193	1112	925
80°	1048	928	1007
85°	766	1003	1003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.2	3.1
10°-20°	135.3	9.0
20°-30°	206.0	13.7
30°-40°	251.2	16.8
40°-50°	266.4	17.8
50°-60°	249.1	16.6
60°-70°	197.1	13.2
70°-80°	111.8	7.5
80°-90°	33.9	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	388.5	25.9
0°-40°	639.7	42.7
0°-60°	1155.3	77.1
0°-90°	1498.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1498.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	498	498	498	498	498	
5°	498	496	496	496	499	47
15°	479	478	479	476	480	136
25°	448	448	445	448	445	207
35°	407	405	399	400	400	254
45°	352	348	344	341	340	271
55°	284	282	278	275	276	255
65°	207	204	196	198	201	204
75°	115	112	107	95	89	122
85°	25	27	32	32	32	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	498.1	498.1	498.1	498.1	498.1
2.5°	495.5	499.8	494.7	501.5	497.3
5°	498.1	496.4	495.5	495.5	499.0
7.5°	495.5	493.0	493.0	491.3	494.7
10°	489.6	493.0	487.0	493.8	489.6
12.5°	487.0	484.4	483.6	483.6	486.1
15°	479.3	478.4	479.3	475.9	480.1
17.5°	471.6	475.9	469.9	475.9	471.6
20°	469.0	466.4	463.0	464.7	464.7
22.5°	460.5	455.3	457.0	453.6	455.3
25°	447.6	448.5	445.1	448.5	445.1
27.5°	439.9	439.1	433.1	435.6	435.6
30°	430.5	426.2	427.1	421.1	423.7
32.5°	416.0	416.0	413.4	413.4	412.5
35°	407.4	404.8	398.8	400.5	399.7
37.5°	395.4	389.4	388.6	383.4	383.4
40°	378.3	377.4	374.0	371.4	372.3
42.5°	368.0	364.6	356.9	358.6	356.9
45°	351.8	347.5	344.1	340.6	339.8
47.5°	332.9	332.9	328.7	326.1	328.7
50°	321.0	318.4	311.5	311.5	312.4
52.5°	303.0	299.6	295.3	292.7	292.7
55°	284.1	282.4	278.2	274.7	275.6
57.5°	267.9	264.5	257.6	257.6	259.3
60°	248.2	244.8	237.9	237.1	237.1
62.5°	226.8	225.1	218.2	217.4	220.0
65°	207.1	203.7	196.0	197.7	201.1
67.5°	185.7	180.6	174.6	176.3	172.9
70°	161.8	159.2	154.9	148.9	144.6
72.5°	140.4	136.1	133.5	121.5	116.4
75°	114.7	112.1	107.0	95.0	89.0
77.5°	91.6	89.9	81.3	71.0	71.9
80°	67.6	70.2	59.9	62.5	65.0
82.5°	45.4	46.2	48.8	51.4	51.4
85°	24.8	27.4	32.5	32.5	32.5
87.5°	10.3	12.8	14.5	14.5	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)